

File 347: JAPI O Dec 1976-2007/Dec( Updated 080328)

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File 350: Derwent WPI X 1963-2008/UD=200820

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Set	Items	Description
S1	3585820	STATE? ? OR STATUS OR CONDI TI ON? ?
S2	364658	S1(5N) ( COMPUTER? ? OR PROCESS?R? ? OR M ICROCOMPUT? OR M ICROPROCESS? OR SLAVE? ? OR NODE? ? OR THREAD? ? OR DEVI CE? ? OR UNIT OR UNITS OR STATI ON? ? OR TERM NAL? ? OR CLI ENT? ? OR LIN K? ?)
S3	61642	SCHEDUL???
S4	4047	S3(5N) (MASTER? ? OR CONTROLLER? ? OR CONTROLER? ? OR COORDI NAT?R? ? OR CO( ) ORDI NAT?R? ? OR SERVER? ? OR BROKER? ? OR HUB OR ADM NI STRATOR? ?)
S5	5846	SCHEDULER? ?
S6	29290	( PRINCIPAL OR LEADER OR LEAD OR CHIEF OR ALPHA OR PARENT OR PRIMARY OR MAIN OR CENTRAL) (1W) ( COMPUTER? ? OR PROCESS?R? ? - OR M ICROCOMPUT? OR M ICROPROCESS?)
S7	76	S3(5N) S6
S8	44778	UPLOAD? OR DOWNLOAD? OR ( UP OR DOWN) ( ) LOAD???
S9	10370940	DELI VER? OR DI STRI BUT? OR PROVI DE OR PROVI DES OR PROVI DED - OR PROVI DING OR PROVI SION? ?
S10	266784	IMPORT? ? OR IMPORTED OR IMPORTI NG OR IMPORTATI ON? OR ACQUISITI ON? ? OR ACQUI R???
S11	3882829	TRANSFER?? OR TRANSFER?? OR SEND?? OR SENT OR TRANSMIS SI ON? ? OR TRANSMIT? OR RETRI EV???
S12	1028220	S8: S11(5N) (DATA OR OBJECT? ? OR CONTENT? ? OR AUDI ODATA OR VI DEODATA OR IMAGEDATA OR MEDI A DATA OR TEXTDATA OR MEDI A OR M ULTI MEDI A OR VI DEO? ?)
S13	57142	S8: S11(5N) (FI LE? ? OR DATAFI LE? ? OR COMPUTERFI LE? OR AUDI OFI LE? OR VI DEOFI LE? OR IMAGEFI LE? OR MEDI AFI LE? OR TEXTFI LE? OR MUSI CFI LE? ?)
S14	189299	BETWEEN 1W (SLAVE? ? OR NODE? ? OR THREAD? ? OR DEVI CE? ? - OR UNIT OR UNITS OR STATI ON? ? OR TERM NAL? ? OR CLI ENT? ? OR LIN K? ?)
S15	392060	(ANOTHER OR DI FFERENT OR SECOND? OR 2ND OR THIRD OR 3RD OR OTHER) (1W) (SLAVE? ? OR NODE? ? OR THREAD? ? OR DEVI CE? ? OR UNIT OR UNITS OR STATI ON? ? OR TERM NAL? ? OR CLI ENT? ? OR LIN K? ?)
S16	131920	REDI RECT? OR RE( ) DI RECT?? OR REFER?? OR REFERI NG OR REFERI NG CR REFERRED
S17	4196	S16(5N) (S5: S6 OR MASTER? ? OR CONTROLLER? ? OR CONTROLER? ? OR COORDI NAT?R? ? OR CO( ) ORDI NAT?R? ? OR SERVER? ? OR BROKER? ? OR HUB OR ADM NI STRATOR? ?)
S18	322	S2 AND S17
S19	6164	S3(10N) S12: S13
S20	1	S18 AND S19
S21	1	S18 AND S3(10N) S14: S15
S22	412	S2 AND S19
S23	90	S22 AND S14: S15
S24	38	S23 AND (S4: S5 OR S7)
S25	39	(S21 OR S24) NOT S20
S26	19	S25 AND PY=1963: 2003
S27	24	S25 AND AY=1963: 2003 AND AC=US
S28	24	S26: S27

? t 28/ 69, k/ 2, 4, 10-11, 20

28/ 69, K/ 2 (Item 2 from file: 350)

DI ALCO(R) File 350: Derwent WPI X

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0014672139 - Drawing available

WPI ACC NO: 2005-019720/200502

XRPX Acc No: N2005-016705

Semi-distributed scheduler for scheduling calls in CDMA communications system has scheduling units in base station controller and base transceiver stations to schedule calls associated with multi user states

Patent Assignee: FONG M (FONG-I); VRZIC S (VRZI-I)

Inventor: FONG M VRZIC S

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20040228349	A1	20041118	US 2003439239	P	20030110	200502 B
			US 2004751951	A	20040107	

Priority Applications (no., kind, date): US 2003439239 P 20030110; US 2004751951 A 20040107

#### Patent Details

Number	Kind	Lang	Pg	Dwg	Filing Notes	Number
US 20040228349	A1	EN	19	4	Related to Provisional	US 2003439239

#### Alerting Abstract US A1

NOVELTY - The scheduler has a base station controller (BSC) (241) and base transceiver stations (BTS) (211, 213) that provide communication links between mobile stations and a wireless telephone network. Scheduling units reside in the base station controller and the base transceiver stations for scheduling the calls of the mobile stations associated with soft handoff (SHO), and non soft handoff (NSHO) user states, respectively. DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. a method for scheduling calls in a wireless communications system
2. a wireless communications system having semi-distributed scheduler.

USE - Used for scheduling calls in a code division multiple access (CDMA) communications system

ADVANTAGE - The scheduler schedules both the soft handoff (SHO) and non-soft handoff (NSHO) user states for transmission on the reverse link, while at the same time maximizes throughput and ensures the stability of the system. The scheduler thus allocates available resources properly regardless of the delay sensitive mobile stations and hence ensures some degree of fairness among the different users.

DESCRIPTION OF DRAWINGS - The drawing shows a block diagram of a wireless communication system that can operate in accordance with a semi-distributed scheduler.

- 211, 213 Base transceiver stations
- 215, 243 Scheduling units
- 221, 223 and 225 Mobile stations
- 231 Public switch telephone network
- 241 Base station controller

Title Terms/Index Terms/Additional Words: SEM; DISTRIIBUTE; SCHEDULE; CALL; CDMA; COMMUNICATE; SYSTEM; UNIT; BASE; STATUS; CONTROL; TRANSCIVER; ASSOCIATE; MULTI; USER; STATE

#### Class Codes

International Classification (Main): H04L-012/28

US Classification, Issued: 370395.4

File Segment: EPI;

DMPI Class: W01; W02

Manual Codes (EPI/S-X): W01-B05A1A; W02-C03C1A; W02-C03C1D; W02-C03C1G

Semi-distributed scheduler for scheduling calls in CDMA communications system has scheduling units in base station controller and base

transceiver stations to schedule calls associated with multi user states

**Alerting Abstract ... NOVELTY -** The scheduler has a base station controller (BSC) (241) and base transceiver stations (BTS) (211, 213) that provide communication links between mobile stations and a wireline telephone network. Scheduling units reside in the base station controller and the...

...for scheduling calls in a wireless communications system a wireless communications system having semi-distributed scheduler .

... **ADVANTAGE -** The scheduler schedules both the soft handoff (SHO) and non-soft handoff (NSHO) user states for transmission on the reverse link, while at the same time maximizes throughput and ensures the stability of the system. The scheduler thus allocates available resources properly regardless of the delay sensitive mobile stations and hence ensures some degree of fairness among the different users...

... diagram of a wireless communication system that can operate in accordance with a semi-distributed scheduler .

#### Original Publication Data by Authority

##### Original Abstracts:

In wireless communications systems, the Base Station Controller (BSC) and Base Transceiver Stations (BTSs) have schedulers which schedule soft handoff (SHO) users and non-soft handoff (NSHO) users regardless of delay sensitive users. The BSC's scheduler prioritizes the SHO users and calculates the available capacity at each sector. Then, with assigned data rates according to the priority, the available capacity is updated by the BSC's scheduler. The BTS's scheduler calculates the available capacity at the sector and with assigned data rates according to the priority of the NSHO users, the available capacity is updated. Based on the updated available capacity, packet data is transmitted at the scheduled data rate in the reverse link. With the schedules processed separately by the BSC and BTS, the multi-user diversity of states on the reverse link of wireless communications is efficiently supported.

##### Claims:

What is claimed is: <b>1</b>. A semi-distributed scheduler for scheduling calls in a wireless communications system wherein a Base Station Controller for controlling various operating aspects of the system and a Base Transceiver Station provides communication links between mobile stations and between the mobile stations and a wireline telephone network, the mobile stations being associated with multi-diversity of user states, the scheduler scheduling the reverse communication links based on the parameters of the system, the scheduler comprising: means for scheduling in the Base Station Controller and the Base Transceiver Station in accordance with types of the user states associated with mobile stations.

28/69, K/4 (Item 4 from file: 350)

DI ALCG(R) File 350: Derwent WPI X

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0014494045 - Drawing available

WPI ACC NO: 2004-674355/200466

XRPX Acc No: N2004-534209

Broadcast automation system integration controller, has scheduling system interface managing communication between scheduling system and controller server, where controller is reconfigurable to exhibit selected functions

Patent Assignee: GENERAL ELECTRIC CO. (GENE)  
Inventor: ANARAL J E S; ANGELOVICH S J; CALLAHAN M K; GOLDFARB H; HAMMOND C R; HENDERSON D L; KENNY K B; KINSTREY M A; M NERVA R A; SARACHAN B D; SCHMIDT A J

Patent Family (1 patents, 1 countries)

Patent	Kind	Date	Number	Kind	Date	Update
Number						
US 6792469	B1	20040914	US 1999125556	P	19990322	200466 B
			US 2000531864	A	20000321	

Priority Applications (no., kind, date): US 1999125556 P 19990322; US 2000531864 A 20000321

Patent Details

Number	Kind	Lang	Pg	Dwg	Filing Notes	Related to Provisional	US 1999125556
US 6792469	B1	EN	11	5	Related to Provisional	US 1999125556	

#### Alerting Abstract US B1

NOVELTY - The controller (100) has an integration controller server distributing events to device drivers, user interface and a log manager. The server collects and sends an execution status to the user interface, the log manager and an event scheduling system (102). A scheduling system interface (104) manages communication between the system and the server. The controller is dynamically reconfigurable to exhibit selected functions.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. a method for controlling digital video and audio using an integration controller for managing scheduling, playback and media management of in response to an event-based playback schedule
2. a system for controlling digital video and audio using at least one integration controller for managing scheduling, playback and media management in response to an event-based playback schedule.

USE - Used for managing scheduling, playback and media management in response to an event-based playback schedule (claimed) in a broadcast automation system that is utilized for controlling digital video and audio stream utilized as television signal.

ADVANTAGE - The controller is dynamically reconfigurable to exhibit selected functions, hence eliminating programming errors and dead air problems of the broadcast automation system.

DESCRIPTION OF DRAWINGS - The drawing shows a single integration Controller decomposed structural and functional units.

100 Integration controller

102 Scheduling System

104 Event Scheduling System interface

108 Device driver

110 Log driver

Title Terms / Index Terms / Additional Words: BROADCAST; AUTOMATIC; SYSTEM; INTEGRATE; CONTROL; SCHEDULE; INTERFACE; MANAGE; COMMUNICATE; SERVE; EXHIBIT; SELECT; FUNCTION

#### Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

H04L-0029/06 A I R 20060101

H04L-0029/06 C I R 20060101

US Classification, Issued: 709231, 72536

File Segment: EPI;

DWI Class: T01; W02

Manual Codes (EPI/S-X): T01-N01D1; T01-N01D3; T01-S01B; W02-F10K

Broadcast automation system integration controller, has scheduling system interface managing communication between scheduling system and controller server, where controller is reconfigurable to exhibit selected functions

**Alerting Abstract** ... a method for controlling digital video and audio using an integration controller for managing scheduling, playback and media management of in response to an event-based playback schedule a system for controlling digital video and audio using at least one integration controller for managing scheduling, playback and media management in response to an event-based playback schedule...

**Original Publication Data by Authority**

**Original Abstracts:**

... with the necessary timing and hardware information. Each event in the schedule commands the playback or record of a video segment, generation of a special effect, transfer of a video segment from one device to another or closure of one or more video switches. Events may be launched automatically at a specified time, or manually by an operator. An Integration Controller (IC) communicates with an Event Scheduling System via a Scheduling System interface. The Scheduling System interface communicates with the Integration Controller via the IC server. The IC server utilizes various modules to communicate with Device Drivers...

**Claims:**

What is claimed is: 1. An integration controller for managing scheduling, playback and media management of digital audio and video in response to an event-based playback schedule, comprising: a device driver sub...

... diagnostic capabilities during integration controller runtimes; at least one user interface for maintaining a plurality of displays for schedules organized by start times, channels, current on-air event, next on-air event, event data...

... status, or error conditions, said at least one user interface enabling an operator to query status of events, video segments and devices, and edit said status and events; an integration controller server for distributing a plurality of events to a) said plurality of device drivers, b) said at least one user interface, andc) said log manager, said integration controller server also collecting and summarizing execution status for each said event, and sending said execution status to the at least one user...

... and to an event scheduling system a scheduling system interface for managing communication between a scheduling system and said integration controller server; and wherein said integration controller is dynamically reconfigurable to exhibit selected functions.

Basic Derwent Week: 200466

28/69, K/10 (Item 10 from file: 350)

DI ALCG(R) File 350: Derwent WPI X

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0011022880 - Drawing available  
WPI ACC NO: 2001-648605/ 200174

XRPX Acc No: N2001-484612

Digital content scheduling method and apparatus for personal communication devices is based on probabilistic modelling system has a software agent in which the scheduler operates

Patent Assignee: BRANDENBERG C B (BRAN-B); COTTER R B (COTT-I); KAY R L (KAYR-I); MAXWELL K J (MAXW1); STICK NETWORKS INC (STICK-N); WIRELESS AGENTS LLC (WIRE-N)

Inventor: BRANDENBERG C B; COTTER R B; KAY R L; MAXWELL K J  
Patent Family (12 patents, 92 countries)

Patent Number	Kind	Date	Number	Kind	Date	Update
WO 2001076120	A2	20011011	WO 2001US11055	A	20010404	200174 E
AU 200153161	A	20011015	AU 200153161	A	20010404	200209 E
US 20010048589	A1	20011206	US 1999172675	P	19991220	200209 E
US 20030063072	A1	20030403	US 2000745617	A	20001220	
			US 2000194644	P	20000404	200325 E
			US 2000229235	P	20000831	
			US 2000232063	P	20000912	
			US 2000745617	A	20001220	
			US 2001826448	A	20010404	
US 6665173	B2	20031216	US 1999172675	P	19991220	200382 E
US 20040032393	A1	20040219	US 2000745617	A	20001220	
US 20040174666	A1	20040909	WO 2001US11055	A	20010404	200414 E
US 6834195	B2	20041221	US 2002240642	A	20021003	
US 20050043060	A1	20050224	US 1999172675	P	19991220	200459 E
			US 2000745617	A	20001220	
			US 2003655802	A	20030905	
			US 2000194644	P	20000404	200501 E
			US 2000229235	P	20000831	
			US 2000232063	P	20000912	
			US 2000745617	A	20001220	
			US 2001826448	A	20010404	
			US 2004959833	A	20041006	
US 7016182	B2	20060321	US 1999172675	P	19991220	200621 E
			US 2000745617	A	20001220	
US 20060227500	A1	20061012	US 2003655802	A	20030905	
US 20060232921	A1	20061019	US 1999172675	P	19991220	200667 E
			US 2000745617	A	20001220	
			US 2003655802	A	20030905	
			US 2006349372	A	20060206	
			US 2006349372	A	20060206	
			US 2006454029	A	20060616	

Priority Applications (no., kind, date): US 1999172675 P 19991220; US 2000194644 P 20000404; US 2000229235 P 20000831; US 2000232063 P 20000912; US 2000745617 A 20001220; US 2001826448 A 20010404; US 2002240642 A 20021003; US 2003655802 A 20030905; US 2004959833 A 20041006; US 2006349372 A 20060206; US 2006454029 A 20060616

Patent Details

Number	Kind	Lat	Pg	Dwg	Filing Notes
WO 2001076120	A2	EN	228	9	
National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MN MM MW MK NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States, Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MV MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200153161	A	EN			Based on CPI patent WO 2001076120
US 20010048589	A1	EN	22		Related to Provisional US 1999172675
US 20030063072	A1	EN			Related to Provisional US 2000194644
					Related to Provisional US 2000229235
					Related to Provisional US 2000232063

US 6665173	B2	EN	C I - P of application US 2000745617 Rel at ed to Provi si onal US 1999172675 PCT Application WO 2001US11055 Rel at ed to Provi si onal US 1999172675 Cont inuation of application US
US 20040032393	A1	EN	Cont inuation of patent US 6665173 Rel at ed to Provi si onal US 2000194644 Rel at ed to Provi si onal US 2000229235 Rel at ed to Provi si onal US 2000232063
US 20040174666	A1	EN	C I - P of application US 2000745617 Rel at ed to Provi si onal US 2000194644 Rel at ed to Provi si onal US 2000229235 Rel at ed to Provi si onal US 2000232063 C I - P of application US 2000745617 Division of application US 2001826448
2000745617			Cont inuation of patent US 6665173 Division of patent US 6834195 Rel at ed to Provi si onal US 1999172675 Cont inuation of application US
US 6834195	B2	EN	Cont inuation of patent US 6665173 Division of patent US 6834195 Rel at ed to Provi si onal US 1999172675 Cont inuation of application US
US 20050043060	A1	EN	Cont inuation of patent US 6665173 Rel at ed to Provi si onal US 2000194644 Rel at ed to Provi si onal US 2000229235 Rel at ed to Provi si onal US 2000232063 C I - P of application US 2000745617 Division of application US 2001826448
2000745617			Cont inuation of patent US 6665173 Division of patent US 6834195 Rel at ed to Provi si onal US 1999172675 Cont inuation of application US
US 7016182	B2	EN	Cont inuation of patent US 6665173 Division of patent US 6834195 Rel at ed to Provi si onal US 1999172675 Cont inuation of application US
2000745617			Cont inuation of patent US 6665173 Division of patent US 6834195 Rel at ed to Provi si onal US 1999172675 Cont inuation of application US
US 20060227500	A1	EN	Cont inuation of patent US 6665173 Rel at ed to Provi si onal US 1999172675 Cont inuation of application US
2000745617			Cont inuation of application US
2003655802			Cont inuation of patent US 6665173 Cont inuation of patent US 7016182 Rel at ed to Provi si onal US 1999172675 Cont inuation of application US
US 20060232921	A1	EN	Cont inuation of application US
2000745617			Cont inuation of application US
2003655802			Cont inuation of application US
2006349372			Cont inuation of patent US 6665173 Cont inuation of patent US 7016182

#### Alerting Abstract WO A2

NOVELTY - The software schedule agent is based on probabilistic modelling system and resides on a communication network and/or other end user client devices. It determines which items of digital contents would be relevant or interest to which user and then transmitted to the appropriate client devices. An electronic digital content wrapper holds the information related to the digital content used for distribution and the presentation of digital content.

DESCRIPTION - INDEPENDENT CLAIMS are also included for

1. An analogue responder for entering a response into a wireless communication appliance has a display and a micro processor.
2. A communication network with portable wireless communication devices issued to the network subscribers located in different geographic locations.

USE - For personal communication devices such as, laptop computer, palmtop computer, personal digital assistant, mobile phone, computer keyboard and global positioning device and other wireless communication appliance, television set top boxes or other end user client devices.

ADVANTAGE - The method provides a tool with which the user can play an active role in the distribution and the presentation of digital data. The contextual digital contents profiles and contextual user profiles are

continuously updated. The rating procedure allows the user to play an active role in the systematic scheduling of digital content presented and provides valuable opinion information without intruding into the user's experience.

**DESCRIPTION OF DRAWINGS** - The drawing shows a simplified view of a location-aware wireless communication appliance and related network system

**Title Terms/ Index Terms/ Additional Words:** DIGITAL; CONTENT; SCHEDULE; METHOD; APPARATUS; PERSON; COMMUNICATE; DEVICE; BASED; PROBABILITY; MODEL; SYSTEM SOFTWARE; AGENT; OPERATE

#### Class Codes

International Classification (+ Attributes)

IPC + Level	Value	Position	Status	Version
G01S-0005/02	A	I	R	20060101
G01S-0005/14	A	I	R	20060101
G06F-0001/16	A	I	F	B
G06F-0001/16	A	I	R	20060101
G06F-0017/30	A	I	R	20060101
G06Q-0030/00	A	I	R	20060101
G09G-0005/00	A	I	R	20060101
H04L-0012/56	A	I	R	20060101
H04L-0029/06	A	I	R	20060101
H04L-0029/08	A	N	R	20060101
H04M-0001/02	A	I	R	20060101
H04M-0001/725	A	N	R	20060101
H04Q-0007/38	A	N	R	20060101
G01S-0005/02	C	I	R	20060101
G01S-0005/14	C	I	R	20060101
G06F-0001/16	C	I	F	B
G06F-0001/16	C	I	L	B
G06F-0001/16	C	I	R	20060101
G06F-0017/30	C	I	R	20060101
G06Q-0030/00	C	I	R	20060101
G09G-0005/00	C	I	R	20060101
H04L-0012/56	C	I	R	20060101
H04L-0029/06	C	I	R	20060101
H04L-0029/08	C	N	R	20060101
H04M-0001/02	C	I	R	20060101
H04M-0001/72	C	N	R	20060101
H04Q-0007/38	C	N	R	20060101

US Classification, Issued: 361683, 361680, 361681, 345173, 345156, 361680, 361683, 455558, 455557, 361683, 361683, 361680, 361681, 361680, 361683, 345905, 34984, 400682, 312223.1, 455456.3, 455456.1, 455456.6, 455414.3, 455414.2, 340994, 340998, 340539.11, 361683, 361680, 361681, 345169

File Segment: EngPl; EPI;

DWPI Class: T01; W01; W02; P85

Manual Codes (EPI/S-X): T01-C02B1D; T01-F02A; T01-F05C; T01-J12; T01-M06A1A; W01-B05A1A; W02-C03C1A

... communication devices is based on probabilistic modelling system has a software agent in which the scheduler operates

**Alerting Abstract** ... updated. The rating procedure allows the user to play an active role in the systematic scheduling of digital content presented and provides valuable opinion information without intruding into the user's experience...

Original Publication Data by Authority

Original Abstracts:

... disclosed. The software scheduling agent is part of a probabilistic modeling system in which the **scheduler** operates to perform constrained random variation with selection. Digital content is generated, organized, and stored on the communication network and/or the client devices...

... constrained random variation. After the software scheduling agent determines which items of digital content would most likely be relevant or interesting to the user, the digital content is transmitted, either in whole or in part, at predetermined times over the communication network to the...

... or client device, such as location-aware wireless communication appliances, television set top boxes, or other end user client devices is disclosed. The software scheduling agent is part of a probabilistic modeling system in which the **scheduler** operates to perform constrained random variation with selection. Digital content is generated, organized, and stored on the communication network and/or the client devices. An electronic digital content wapper...

... software scheduling agent determines which items of digital content would most likely be relevant or interesting to the user, the digital content is transmitted, either in whole or in part, at predetermined times over the communication network to the...

... disclosed. The software scheduling agent is part of a probabilistic modeling system in which the **scheduler** operates to perform constrained random variation with selection. Digital content is generated, organized, and stored on the communication network and/or the client devices. An electronic digital content wapper, which holds information in the form of data and metadata... of digital content would most likely be relevant or interesting to the user, the digital content is transmitted, either in whole or in part, at predetermined times over the communication network to the appropriate client...

... disclosed. The software scheduling agent is part of a probabilistic modeling system in which the **scheduler** operates to perform constrained random variation with selection. Digital content is generated, organized, and stored on the communication network and/or the client devices. An electronic digital content wapper, which holds information in the form of data and metadata related to the digital content is associated with each item of digital content. Contextual profiles for each user and each...

... disclosed. The software scheduling agent is part of a probabilistic modeling system in which the **scheduler** operates to perform constrained random variation with selection. Digital content is generated, organized, and stored...

... metadata related to the digital content is associated with each item of digital content. Contextual profiles for each user and each item of digital content are established by the users and...

**Ca ins:**

... the keyboard is at least partially concealed by the display portion when the hand-held device is in a closed state, and wherein the keyboard is exposed when the hand-held device is in an open state; and at least one coupling between the body portion and the display portion back surface...

... the coupling is concealed by the display portion when the display is viewed with the device in either the closed state or the open state, and wherein the coupling allows the display portion to move relative

Basic Dertent Week: 200174

0010840681 - Drawing available  
WPI ACC NO: 2001-458835/ 200150

XRPX Acc No: N2001-340162

Wireless communication system has master station which sends scheduled transmission on band assignment to slave station using band assignment packet  
Patent Assignee: ANDO K (ANDO I); HAYASHI NO H (HAYA-I); IMAI H (IMAI-I); MATSUSHITA DENKI SANGYO KK (MATU); MATSUSHITA ELECTRIC IND CO LTD (MATU); OM S (OM S-I)

Patent Family (8 patentees, 28 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
EP 1104962	A2	20010606	EP 2000125318	A	20001129	200150 B
JP 2001223716	A	20010817	JP 2000361703	A	20001128	200155 E
EP 1104962	B1	20050518	EP 2000125318	A	20001129	200538 E
DE 60020204	E	20050623	DE 60020204	A	20001129	200543 E
			EP 2000125318	A	20001129	
US 6940831	B1	20050906	US 2000722593	A	20001128	200558 E
US 20050220117	A1	20051006	US 2000722593	A	20001128	200566 E
			US 2005140988	A	20050601	
DE 60020204	T2	20060119	DE 60020204	A	20001129	200612 E
			EP 2000125318	A	20001129	
US 7012902	B2	20060314	US 2000722593	A	20001128	200620 E
			US 2005140988	A	20050601	

Priority Applications (no., kind, date): JP 1999337119 A 19991129; EP 2000125318 A 20001129

#### Patent Details

Number	Kind	Land	Pg	Dwg	Filing Notes
EP 1104962	A2	EN	35	21	
Regional Designated States, Original:					AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR
JP 2001223716	A	JA	21		
EP 1104962	B1	EN			
Regional Designated States, Original:					DE FR GB
DE 60020204	E	DE			Application EP 2000125318
					Based on CPI patent EP 1104962
US 20050220117	A1	EN			Division of application US 2000722593
DE 60020204	T2	DE			Application EP 2000125318
					Based on CPI patent EP 1104962
US 7012902	B2	EN			Division of application US 2000722593
					Division of patent US 6940831

#### Alerting Abstract EP A2

NOVELTY - A slave station transmits a request for setting communication link to master station using request packet. Master station scheduler schedules transmission on band assignment including transmission time and transmission amount of data to allocate communication line required for data transmission. Master station sends the scheduled transmission on band assignment to slave station using band assignment packet.

DESCRIPTION - A slave station provides scheduler with a communication parameter for data transmission using request packet. The scheduler handles data of different communication types such as constant in transmission speed and data period (CBR), variable in transmission speed and constant in data period (VBR), constant in transmission speed and variable in data period (ABR) and variable in transmission speed and data period (UBR). The master station sends transmission band assignment scheduled by the scheduler to slave station using band

assignment packet. Bidirectional data transmission is carried out between master and slave stations according to the transmission band assignment.

USE - Wireless communication between personal computers and television receivers connected to network.

ADVANTAGE - Optimal data transmission is made by effectively using limited communication resources. The request packet is transmitted by using transmission band in which a communication link has been already set for transmitting station, hence conflict with other stations is avoided. Power consumption at receiving station is reduced.

DESCRIPTION OF DRAWINGS - The figure shows wireless communication system

**Title Terms/ Index Terms/ Additional Words:** WIRELESS; COMMUNICATE; SYSTEM; MASTER; STATUS; SEND; SCHEDULE; TRANSMISSION; BAND; ASSIGN; SLAVE; PACKET

#### Class Codes

International Classification (Main): H04L-012/56

International Classification (+ Attributes)

IPC + Level Value Position Status Version

H04L-0007/00	A		F	B	20060101
H04B-0007/26	A		L	R	20060101
H04L-0001/00	A		F	R	20060101
H04L-0012/28	A		B	20060101	
H04L-0012/28	A		R	20060101	
H04L-0012/56	A		B	20060101	
H04L-0012/56	A		R	20060101	
H04L-0007/00	A		L	R	20060101
H04Q-0007/36	A		L	R	20060101
H04B-0007/00	C		L	B	20060101
H04B-0007/26	C		L	R	20060101
H04L-0001/00	C		F	R	20060101
H04L-0012/28	C		B	20060101	
H04L-0012/28	C		R	20060101	
H04L-0012/56	C		B	20060101	
H04L-0012/56	C		R	20060101	
H04L-0007/00	C		L	R	20060101
H04Q-0007/36	C		L	R	20060101

US Classification, Issued: 370395.4, 370310.1, 370348, 370395.43, 370310.1, 370348, 370395.43, 370338

File Segment: EPI;

DWPI Class: W01

Manual Codes (EPI/S-X): W01-A03B; W01-A06; W01-A06G2

Wireless communication system has master station which sends scheduled transmission band assignment to slave station using band assignment packet

Alerting Abstract ... slave station transmits a request for setting communication link to master station using request packet. Master station scheduler schedules transmission band assignment including transmission time and transmission amount of data to allocate communication line required for data transmission. Master station sends the scheduled transmission band assignment to slave station using band assignment packet. DESCRIPTION - A slave station provides scheduler with a communication parameter for data transmission using request packet. The scheduler handles data of different communication types such as constant in transmission speed and data period (CBR), variable in transmission speed and constant in data period (VBR), constant in transmission speed and variable in data period (ABR) and variable in transmission speed and data period (UBR). The master station sends transmission band assignment scheduled by the scheduler to slave station using band assignment packet. Bidirectional data transmission

is carried out between master and slave stations according to the transmission band assignment...

...in which a communication link has been already set for transmitting station, hence conflict with other stations is avoided. Power consumption at receiving station is reduced...

#### Original Publication Data by Authority

##### Original Abstracts:

...can be mixedly transmitted, and a transmission band can be dynamically assigned according to a state of data transmission. A master station has a scheduler for determining transmission band assignment including information about transmission timing of the data, a transmission amount, and a station that is allowed to access. This scheduler regularly carries out scheduling, and optimizes the transmission band to be assigned dynamically according to the communication type of the data and a state of data transmission. The master station gives transmission band assignment determined by the scheduler to each slave station. A transmitting station executes data transmission (access) to a receiving station based on the given transmission band assignment. The receiving station gives information about a state of data receiving to the master station, where the scheduler reflects this on scheduling.

...burst data can be mixedly transmitted, and a transmission band can be dynamically assigned according to a state of data transmission. A master station has a scheduler for determining a transmission band assignment including information about the transmission timing of the data, a transmission amount, and a station that is allowed to access. The scheduler regularly carries out scheduling, and optimizes the transmission band to be assigned dynamically according to the communication type of the data and a state of data transmission. The master station gives a transmission band assignment which is determined by the scheduler to each slave station. A transmitting station executes data transmission (access) to a receiving station based on the given transmission band assignment. The receiving station gives information about a state of data receiving to the master station, where the scheduler reflects this on scheduling.

...can be mixedly transmitted, and a transmission band can be dynamically assigned according to a state of data transmission. A master station has a scheduler for determining a transmission band assignment including information about the transmission timing of the data, a transmission amount, and a station that is allowed to access. The scheduler regularly carries out scheduling, and optimizes the transmission band to be assigned dynamically according to the communication type of the data and a state of data transmission. The master station gives a transmission band assignment which is determined by the scheduler to each slave station. A transmitting station executes data transmission (access) to a receiving station based on the given transmission band assignment. The receiving station gives information about a state of data receiving to the master station, where the scheduler reflects this on scheduling.

...can be mixedly transmitted, and a transmission band can be dynamically assigned according to a state of data transmission. A master station has

a scheduler for determining a transmission band assignment including information about the transmission timing of the data, a transmission amount, and a station that is allowed to access. The scheduler regularly carries out scheduling, and optimizes the transmission band to be assigned dynamically according to the communication type of the data and a state of data transmission. The master station gives a transmission band assignment which is determined by the scheduler to each slave station. A transmitting station executes data transmission on band assignment. The receiving station gives information about a state of data receiving to the master station, where the scheduler reflects this on scheduling. >

Claims:

...hereinafter, master station (10) for managing a wireless network and one or more other wireless access units (hereinafter, slave stations (20)) are on the wireless network, and data of one or a...

...and data period) is transmitted between the master station (10) and one of the slave stations (20) or between the slave stations (20), said master station (10) comprising a scheduler (15) for regularly determining (scheduling) transmission band assignment including information about transmission timing of the data, a transmission amount, and the master station (10) or any of the slave stations (20) that is allowed to access, in order to make a request for setting a communication link for data transmission, said master station (10) providing said scheduler (15) with a communication parameter for the...

...station (20) providing said scheduler (15) with a communication parameter for the data transmission by transmitting a communication parameter for the data transmission to said master station (10) by using a request packet, said master station (10) giving the transmission band assignment scheduled by said scheduler (15) to said slave station (20) by using a band assignment packet and recognizing the transmission band assignment; and a transmitting station (said master station (10) or said slave station (20) that sends the data) and a receiving station...

...die variabel bezüglich der Übertragungsgeschwindigkeit und der Datumsperiode ist (UBR), wobei die Masterstation (10) einen Scheduler (15) umfasst zum Durchfahren des Schedulings durch regelbasierte Bestimmen der Übertragungsbandzuordnung inklusive Informationen bezüglich Übertragungszeit und Zeilung...

...10) oder jeder der Slavestationen (20), der es erlaubt ist, zuzugehen, wobei die Masterstation (10) Mittel umfasst, um dem Scheduler (15) Kommunikationsparameter für die Datenübertragung zur Verfügung zu stellen, um eine Anfrage für das Setzen...

...alle oder einen Teil der Übertragungsmenge, der Übertragungsgeschwindigkeit, der Datumsperiode und -priorität enthält, die von jeder Art (CBR, VBR, ABR, UBR) benötigt wird, wobei die Slavestationen (20) Mittel umfasst, um dem Scheduler (15) einen Kommunikationsparameter für die Datenübertragung zur Verfügung zu stellen, indem Kommunikationsparameter für die Datenübertragung...

...um die Anfrage zu machen zum Setzen der Kommunikationsverbindung für Datenübertragung, der Kommunikation, von Parametern inklusive aller oder eines Teils von Übertragungsmenge, Übertragungsgeschwindigkeit, Datumsperiode und -priorität, die von jeder der Arten...

...ABR, UBR) benötigt wird, wobei die Masterstation (10) Mittel umfasst, um die Übertragungsbandzuordnung, die vom Scheduler (15) bestimmt wurde, der Slavestation (20) zu übergeben, indem ein Bandzuordnungspaket verwendet wird und die...

...eingerichtet wird, durch die Übertragungsbandzuordnung, und die bidirektionale Datenübertragung gemäß der Übertragungsbandzuordnung durchführen, worin die Übertragungsstation die Masterstation (10) oder die Slavestation (20) ist, welche die Daten sendet, und die Empfangsstation...

...wenn die Kommunikationsart, die durch den Kommunikationsparameter angezeigt wird, CBR, VBR oder ABR ist, der Scheduler (15) Berechnungsmittel umfasst, um eine Differenz Tb zwischen einer aktuellen Zeit oder einer Referenzzeit zu...

...Kommunikationsverbindung beendet worden ist, und um zu bestimmen, wann die Differenz Tb für jede Kommunikationsverbindung positiv ist, und wenn ja<br>ein Differenz Vdd zwischen einem Datenmengeparameter zu berechnen, der in dem...is transmitted between the master station (10) and one of the slave stations (20) or between the slave stations (20) by using one or a combination of: a communication type which is constant...

...type which is constant in transmission speed and variable in data period (ABR); and a communication type which is variable in transmission speed and data period (UBR), said master station (10) comprising a scheduler (15) for performing scheduling by regularly determining transmission band assignment including information about transmission timing of the data, a transmission amount, and the master station (10) or any of the slave stations (20) that is allowed to access, said master station (10) comprising means for providing said scheduler (15) with communication parameters for the data transmission in order to make a request for setting a communication link for data transmission, the communication parameters including all or a part of a transmission amount, transmission speed, data period and priority, needed by each type (CBR, VBR, ABR, UBR) said slave station (20) comprising means for providing said scheduler (15) with a communication parameter for the data transmission by transmitting communication parameters for the data transmission to said master station (10) by using a request packet in order to make the request for setting...

...transmission speed, data period and priority, needed by each type (CBR, VBR, ABR, UBR) said master station (10), comprising means for giving the transmission band assignment scheduled by said scheduler (15) to said slave station (20) by using a band assignment packet and recognizing the transmission band assignment, and a transmitting station and a receiving station between which the communication link is set by said transmission band assignment carrying out bidirectional data...

...whein der transmitting station is said master station (10) or said slave station (20) that sends the data, and the receiving station is said master station (10) or said slave station (20) that receives the data, wheren<br>when the communication type indicated by said communication parameter is CBR, VBR or ABR, said scheduler (15) comprises calculation means to calculate a difference Tb between a present time or a reference time, which is a transmission time of the assigned transmission band, and a time when data transmission on each communication...

...between a data amount parameter included in said communication parameter and indicating an amount of data to be transmitted and an amount of data already received by said receiving station, and to calculate a priority value by subtracting an overhead bandwidth from an entire transmission...

...then dividing said difference Vdd by the value, and to select one or more communication links whose priority value is not less than a predetermined value and predetermined in decreasing order...at least one

slave station, and transmitted between said at least one slave station and another slave station by using at least one of a constant bit rate communication type which is constant...

...variable in data period; and an unspecified bit rate communication type which is variable in transmission speed and data period; wherein said master station comprises a scheduler for performing scheduling by regularly determining a transmission band assignment including information regarding a transmission timing of the data, a transmission amount, and whether said master station or any one of said at least one slave station is allowed to access said wireless access system and means for providing said scheduler with communication parameters for the data transmission on which are needed by each of the communication types in order to make a request...

...period and priority; wherein said at least one slave station comprises means for providing said scheduler with a communication parameter for the data transmission which are needed by each of the communication types by transmitting communication parameters for the data transmission to said master station by using a request packet in order to make the request for setting the...a part and an entire transmission amount, transmission speed, data period and priority; wherein said master station comprises means for giving the transmission band assignment scheduled by said scheduler to said at least one slave station by using a band assignment and recognizing the...

...indicating a transmission time added thereto; wherein said at least one slave station comprises means for synchronizing a time counter of said at least one slave station with a time counter of said master station by using the transmission...

...said transmitting station is at least one of said master station and said at least one slave station which sends the data, and said receiving station is at least one of said master station and said at...

...to a wireless network; and at least one slave station, which is one or more other wireless access units; wherein said master station and said at least one slave station are on the...

...of transmitted between said master station and said at least one slave station, and transmitted between said at least one slave station and another slave station by using at least one of a constant bit rate communication type which is constant...

...variable in data period; and an unspecified bit rate communication type which is variable in transmission speed and data period; wherein said master station comprises a scheduler for performing scheduling by regularly determining a transmission band assignment including information regarding a transmission timing of the data, a transmission amount, and whether said master station or any one of said at least one slave station is allowed to access said wireless access system and means for providing said scheduler with communication parameters for the data transmission on which are needed by each of the communication types in order to make a request for setting a communication link for data transmission, the communication parameters including at least one of a part and an entire transmission amount, transmission speed, data period and priority; wherein said at least one slave station comprises means for providing said scheduler with a communication parameter for the data transmission which are needed by each of the communication types by transmitting communication parameters for the data transmission to said master station by using a request packet in order to make the request for setting the communication link for data transmission, the communication parameters including at least one of a part and an entire transmission amount, transmission speed, data

period and priority; wherein said master station further comprises means for giving the transmission band assignment scheduled by said scheduler to said at least one slave station by using a band assignment and recognizing the transmission band assignment; wherein a transmitting station and a receiving station between which the communication link is set by the transmission band assignment carry out bi-directional data transmission according to the transmission band assignment; wherein said transmitting station is at least one of said master station and...

...one of said master station and said at least one slave station which receives the data; wherein the communication type indicated by the communication parameter is at least one of the constant bit rate communication type, the variable bit rate communication type and the available bit rate communication type; wherein said scheduler comprises calculation means for calculating a difference  $T_b$  between at least one of a present...

...is positive for each communication link; wherein when the difference  $T_b$  is positive for each communication link, said calculation means calculates a difference  $Vdd$  between a data amount parameter included in the communication parameter and indicating an amount of data to be transmitted and an amount of band; and wherein when the difference  $T_b$  is not positive for each communication link, said calculation means selects at least one...

...at least one slave station, and transmitted between said at least one slave station and another slave station by using at least one of a constant bit rate communication type which is constant...

...variable in data period; and an unspecified bit rate communication type which is variable in transmission speed and data period; wherein said master station comprises a scheduler for performing scheduling by regularly determining a transmission band assignment including information regarding a transmission timing of the...

...slave station is allowed to access said wireless access system and means for providing said scheduler with communication parameters for the data transmission which are needed by each of the communication types in order to make a request...

...speed, data period and priority; wherein said at least one slave station comprises means for providing said scheduler with a communication parameter for the data transmission which are needed by each of the communication types by transmitting communication parameters for the data transmission to said master station by using a request packet in order to make the request for setting the communication link for data transmission, the communication parameters including at least one of a part and an entire transmission amount, transmission speed, data period and priority; wherein said master station comprises means for giving the transmission band assignment packet scheduled by said scheduler to said at least one slave station by using a band assignment packet and recognizing the transmission band assignment; wherein said master station comprises means for transmitting, to said at least one slave station, the band assignment packet with a transmission time stamp value indicating a transmission time added thereto; wherein said at...

...counter of said master station by using the transmission time stamp value transmitted from said master station; wherein a transmitting station and a receiving station between which the communication link is set by the transmission band assignment carry out...

...station which sends the data, and said receiving station is at least one of said master station and said at least one slave station which receives the data.> Basic Derwent Week: 200150

0008745012 - Drawing available

WPI ACC NO: 1998-287181/ 199825

XRPX Acc No: N1998-225666

Process cell for use in a process control system - has self-contained process cell that fully specifies its inputs, outputs, state variables and processing logic as well as specifying links to the other cells that provide its inputs

Patent Assignee: CYBERLIFE TECHNOLOGY LTD (CYBE-N); GRAND S L (GRAN-L); M LLENNI UM I INTERACTIVE LTD (MLL-N)

Inventor: GRAND S L

Patent Family (6 patents, 87 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 1998020418	A1	19980514	WO 1996GB2703	A	19961105	199825 B
AU 199673243	A	19980529	AU 199673243	A	19961105	199841 E
			WO 1996GB2703	A	19961105	
EP 937286	A1	19990825	EP 1996935171	A	19961105	199939 E
			WO 1996GB2703	A	19961105	
EP 937286	B1	20020327	EP 1996935171	A	19961105	200222 E
			WO 1996GB2703	A	19961105	
DE 69620265	E	20020502	DE 69620265	A	19961105	200237 E
			EP 1996935171	A	19961105	
			WO 1996GB2703	A	19961105	
US 6446055	B1	20020903	US 1999284079	A	19961105	200260 E
				A	19990407	

Priority Applications (no., kind, date): WO 1996GB2703 A 19961105

## Patent Details

Number	Kind	Lang	Pg	Dwg	Filing	Notes
WO 1998020418	A1	EN	73	8		
National Designated States, Original: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MK NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN						
Regional Designated States, Original: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG						
AU 199673243	A	EN			PCT Application	WO 1996GB2703
					Based on CPI patent	WO 1998020418
EP 937286	A1	EN			PCT Application	WO 1996GB2703
					Based on CPI patent	WO 1998020418
Regional Designated States, Original: DE FI FR GB IE IT NL SE					PCT Application	WO 1996GB2703
EP 937286	B1	EN			Based on CPI patent	WO 1998020418
Regional Designated States, Original: DE FI FR GB IE IT NL SE					PCT Application	EP 1996935171
DE 69620265	E	DE			Based on CPI patent	WO 1996GB2703
					Based on CPI patent	EP 937286
US 6446055	B1	EN			Based on CPI patent	WO 1998020418
					PCT Application	WO 1996GB2703
					Based on CPI patent	WO 1998020418

## Alerting Abstract WO A1

The process cell has data inputs, data outputs, processing logic, state variable and link data specifying the other cells that provide its inputs. A scheduler triggers the process cells, as a whole to update their state variables. Process cells can comprise a parent process cell that contains child process cells, at least some of which are linked to the parent cell.

Providing the process cell with these features enables it to act independently to update its variables without requiring outside control. The process to be controlled can be broken down into a number of self-contained process cells.

**ADVANTAGE** - Facilitates the modification and enlargement of a process control system since the existing process cells do not need to be modified.

**Title Terms/ Index Terms/ Additional Words:** PROCESS; CELL; CONTROL; SYSTEM; SELF; CONTAIN; SPECIFIED; INPUT; OUTPUT; STATE; VARIABLE; LOGIC; WELL; LINK

#### Class Codes

International Classification (+ Attributes)

IPC + Level Value Position Status Version

G06F-0009/46 A I R 20060101

G06F-0009/46 C I R 20060101

US Classification, Issued: 70610, 70621, 70647

File Segment: EPI;

DWPI Class: T01

Manual Codes (EPI/S-X): T01-F02A

**Alerting Abstract** ... The process cell has data inputs, data outputs, processing logic, state variable and link data specifying the other cells that provide its inputs. A scheduler triggers the process cells, as a whole to update their state variables. Process cells can...

#### Original Publication Data by Authority

##### Original Abstracts:

... plurality of autonomous process cells. Each process cell has data inputs, data outputs, processing logic, state variable, and link data specifying the other cells that provides its inputs. A scheduler triggers the plurality of cells as a whole to update their state. Cell may be recursive and contain child...

... plurality of autonomous process cells. Each process cell has data inputs, data outputs, processing logic, state variable, and link data specifying the other cells that provides its inputs. A scheduler triggers the plurality of cells as a whole to update their state. Cell may be recursive and contain child cells...

... plurality of autonomous process cells. Each process cell has data inputs, data outputs, processing logic, state variable, and link data specifying the other cells that provides its inputs. A scheduler triggers the plurality of cells as a whole to update their state. Cell may be recursive and contain child cells, at least some of...

##### Claims:

... input, at least one data output for outputting data dependent upon said at least one state variable and a programmable link for each said data input specifying a source from which said at least one data input receives data; and a scheduler for triggering said plurality of process cells as a whole to update their state variables whereby each of said plurality of process cells autonomously updates its state variables in dependence upon its at least one...

... input, at least one data output for outputting data dependent upon said at least one state variable and a programmable link for each said data input specifying a source from which said at least one data input receives data, said plurality of...

... a model of an autonomous object, at least one data input to at least one **process** cell modeling a stimulus **applied** to said autonomous object and at least one data output from at least one process cell modeling a response of said autonomous object to stimulation; and a **scheduler** for triggering said plurality of process cells as a whole to update their state variables ... upon said at least one data input to each cell using programmable logic to generate said at least one data output, updating of said state variables of said plurality of process...

Basic Derwent Week: 199825